CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Department of Public Works
CITY FACILITES ARCHITECTURAL SERVICES DIVISION

April 3, 2009

ADDENDUM NO. 1
FOR THE
HAPPY HOLLOW PARK AND ZOO PEDESTRIAN BRIDGE REBID

Notice is hereby given that the following revisions, additions and/or deletions are hereby made of, and incorporated into plans and specifications for the HAPPY HOLLOW PARK AND ZOO PEDESTRIAN BRIDGE REBID PROJECT.

SPECIFICATIONS – SPECIAL PROVISIONS:

1. "TABLE OF CONTENTS" shall be replaced with the attached and updated "Table of Contents – Add No. 1".

2. "SPECIAL PROVISIONS" dated, "10/08/2008" shall be replaced with the attached and updated "SPECIAL PROVISIONS" dated, "Rev. 10/08/2008 With Claim Provisions." Attention is directed to the following sections:

    a. Added 8.106: entitled, "Time of Completion with in climate weather provisions"
    b. Added 9.104: entitled, "Notice of Potential Claim"
    c. Added 9.107B: entitled, "Final Payment and Claims"
    d. Attachments 1 through 5 shall remain and are not modified
    e. Attachment 6 is included with the Addendum to provide the Notices of Potential Claims Forms and to complete the package.
    f. Combined and Modified Section 9.107C into Section 9.107B added above

3. TECHNICAL SPECIFICATIONS, Section 02620, entitled, "Geotextile – Subsurface Drainage Application" has been added.

4. TECHNICAL SPECIFICATIONS Section 02640, entitled, "Drainage System" has been added.

5. TECHNICAL SPECIFICATIONS, Section 2950, entitled, "SODDING", Paragraph 2.03, "WATER" shall be revised to read as follows:
    a. Contractor to provide clean water to SOD and to existing grasses between the Riparian Corridor and the infiltration basin after planting and for the duration of the maintenance period.

b. Contractor shall provide water at quantities and frequencies sufficient to provide healthy and vigorous growth as conditions require.

6. TECHNICAL SPECIFICATIONS Section 07900, entitled, "Joint Seal" has been added.

7. TECHNICAL SPECIFICATIONS Section 16100, entitled, "Raceways, Boxes, and Cabinets", reprinted page 2 due to printing error. No changes.

PLANS:

8. Sketch AD-1 and AD-2, entitled, "Infiltration / Retention Basin Plan View" and "Section of Infiltration / Retention Basin" respectively are added.

9. Sketch AD-3, entitled, "Detail of drainage pipe at bottom of basin".

10. Sheet G2:
    a. Sheet No. S10A added to "Index of Drawings"
    b. Sheet No. S44A added to "Index of Drawings"
11. Sheet S2:
    a. Elevations in "Profile Grade Line Along CL of Bridge" modified
12. Sheet S7:
    a. Elevations in "Elevation" modified
    b. Abutment head wall detail callout in "S1 - Section" added
    c. "D1 - West Abutment" and "D1 - East Abutment" added
13. Sheet S10:
    a. All elevations in plan, elevation, and sections modified
    b. Center pier drainage system in "P1 - Pier Cap Plan" revised
    c. Pier brackets in "E1 – Center Pier North Elevation" modified
    d. Drainage system in "S1 – Pier Section" revised
    e. Pier bracket in "S1 – Pier Section" modified
    f. Drainage system in "S21 – Pier Section" revised
    g. Pier bracket in "S21 – Pier Section" modified
14. Sheet S10A:
    a. New sheet showing revised drainage system
15. Sheet S14:
    a. All elevations in sections and detail modified
    b. Center pier brackets in all "Pier Section" modified
    c. Drainage system in all "Pier Section" revised
    d. Drainage pipe material and detail in "Drainage Outlet Details" revised
16. Sheet S33:
    a. "End Plate Dimensions" table for West Abutment modified
17. Sheet S44:
    a. "Deck Joint Plan at Abutments" modified to "Deck Joint Plan at East Abutment"
    b. Neoprene stopper detail added to "Deck Joint Plan at East Abutment"

c. Spacing of countersunk holes in "Deck Joint Plan at East Abutment" modified
d. Compression seal at curb in "Deck Joint Plan at Pier" modified
e. Note 2 modified

18. Sheet S44A:
    a. New sheet showing modified deck joint at west abutment
    b. New sheet showing details of neoprene stopper at curb
19. Sheet S51:
    a. West approach slab slope and elevations in "West Abutment Grading and Jump Slab Plan" modified
    b. Elevations in "S2 – Cheek Wall Section" modified
20. Sheet S52:
    a. West approach slab slope and elevations in "S1 – Section at Curb" modified
    b. West approach slab slope and elevations in "S2 – Section at CL Bridge" modified

INSTRUCTIONS TO BIDDER:

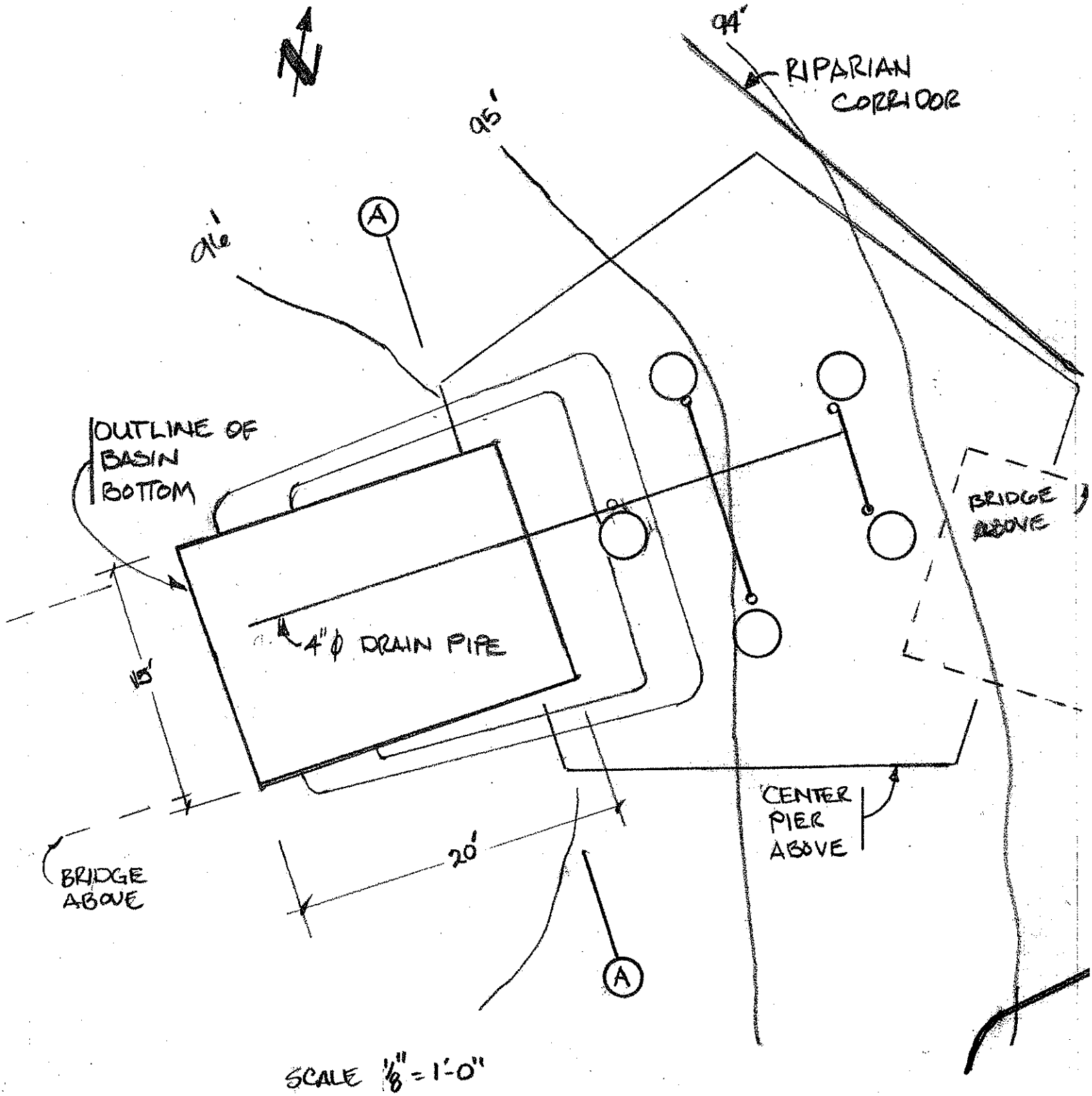
The bidder must sign this addendum in the space provided below and return one signed copy with the bid. Failure to return the signed copy with the bid documents shall not relieve the bidder of the obligation to include this addendum with the bid proposal.

APPROVED BY:

for Katy Allen
Director
Public Works Department

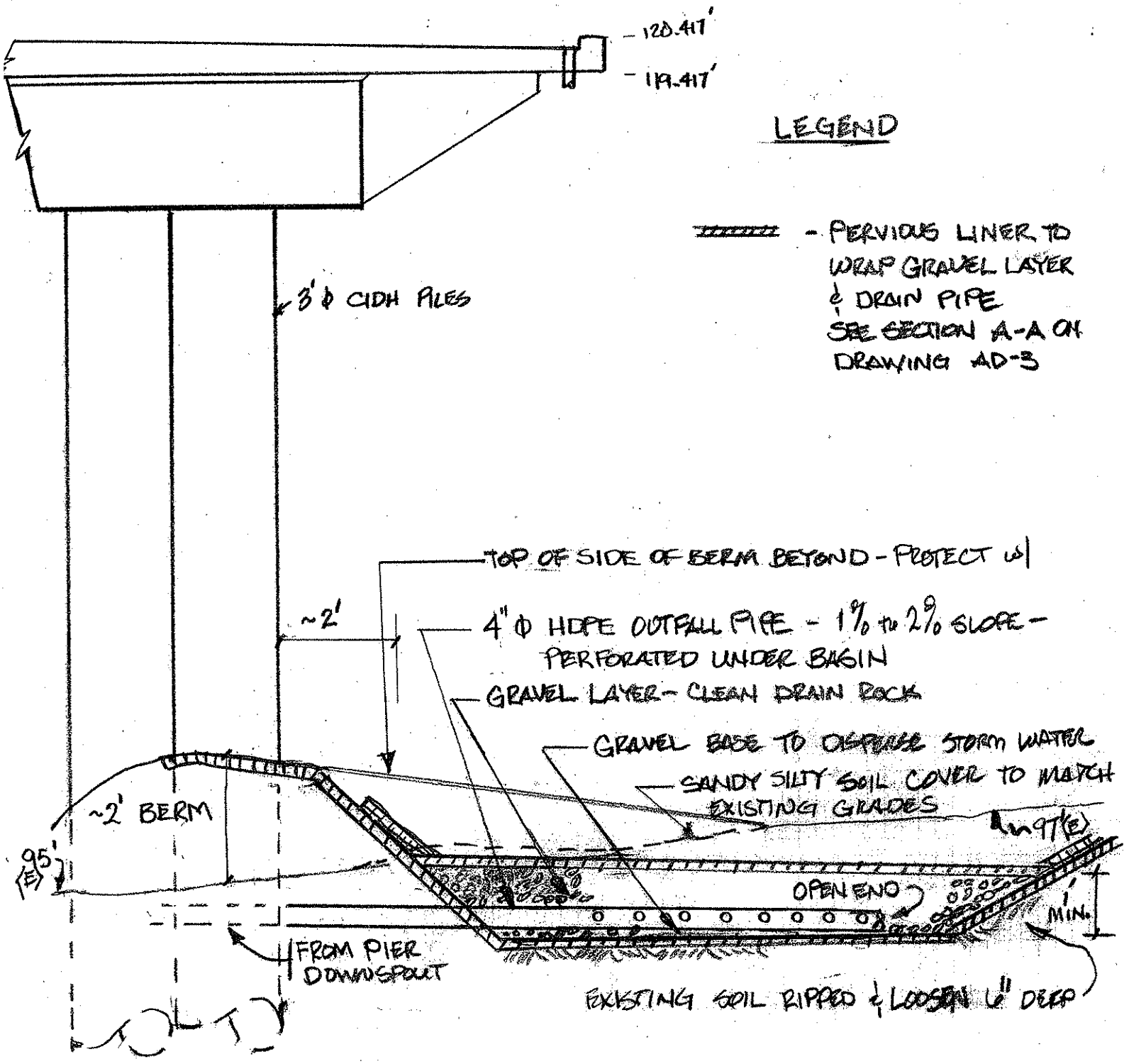
_____ _____
Bidder's Name Date

_____
Signature & Title of Bidder



SHEET NO: AD–1	PROJECT NAME: HAPPY HOLLOW PARK BRIDGE PROJECT – REBID	SCALE: -" -0"	DRAWN BY: –	DEPARTMENT OF PUBLIC WORKS SAN JOSE , CALIFORNIA
DRAWING NAME: –	SHEET DESCRIPTION: INFILTRATION BASIN PLAN VIEW	DATE: 3/31/2009	CHECKED BY: P. TESTA	City Facilities Architectural Services Division
		SECTION MANAGER: R. MANDANICI		CITY OF SAN JOSE CAPITAL OF SILICON VALLEY

CENTER PIER NORTH ELEVATION



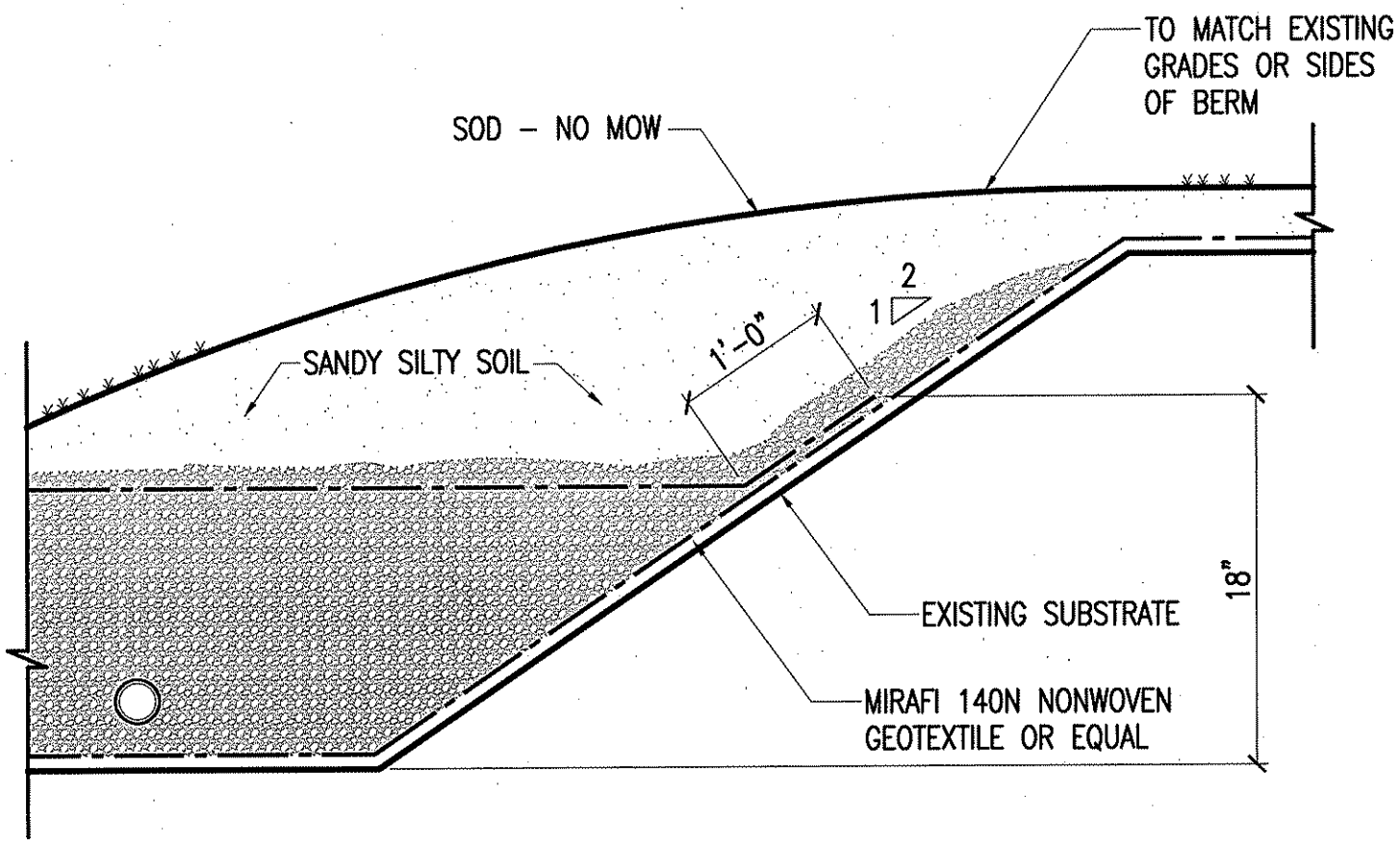
LEGEND

▨ - PERVIOUS LINER TO WRAP GRAVEL LAYER & DRAIN PIPE SEE SECTION A-A ON DRAWING AD-3

Notes:

1. Contractor shall plant SOD, NO MOW or approved equal, to cover basin, berm and surrounding areas around basin and up to Riparian Corridor, unless existing lawn is still healthy.
2. Provide maintenance for new SOD, existing grasses and plants per addendum modifications to Section 02950 – SODDING.

SHEET NO: AD-2	PROJECT NAME: HAPPY HOLLOW PARK BRIDGE PROJECT – REBID	SCALE: NONE	DRAWN BY: –	DEPARTMENT OF PUBLIC WORKS SAN JOSE, CALIFORNIA
DRAWING NAME: –	SHEET DESCRIPTION: SECTION OF INFILTRATION / RETENTION BASIN	DATE: 3/30/2009	CHECKED BY: P. TESTA	City Facilities Architectural Services Division
		SECTION MANAGER: R. MANDANICI		CITY OF SAN JOSE CAPITAL OF SILICON VALLEY



SHEET NO: AD–3	PROJECT NAME: HAPPY HOLLOW PARK BRIDGE PROJECT – REBID	SCALE: NTS	DRAWN BY: N. ARQUIZA	DEPARTMENT OF PUBLIC WORKS SAN JOSE , CALIFORNIA
DRAWING NAME: –	SHEET DESCRIPTION: SECTION A–A BASIN LINER DETAIL	DATE: 4/1/2008	CHECKED BY: P. TESTA	City Facilities Architectural Services Division
		SECTION MANAGER: R. MANDANICI		CITY OF SAN JOSE CAPITAL OF SILICON VALLEY

SECTION 02620

Geotextile - Subsurface Drainage Application

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Geotextile to allow for long-term passage of water into a subsurface drain system retaining the in-situ soil. The primary function of the geotextile is filtration.

1.2 RELATED SECTIONS

A. Section 02200 - Site Preparation

B. Section 02300 -Earthwork

1.3 UNIT PRICES

A. Method of Measurement: By the square meter (or square yard - as indicated in contract documents) including seams, overlaps, and wastage.

B. Basis of Payment: By the square meter (or square yard - as indicated in contract documents) installed.

1.4 REFERENCES

A. AASHTO Standards:

1. T88 - Particle Size Analysis of Soils
2. T90 - Determining the Plastic Limit and Plasticity Index of Soils
3. T99 - The Moisture-Density Relations of Soils Using a 5.5lb (2.5 kg) Rammer and a 12in (305 mm) Drop.
4. M288-96 - Geotextile Specification for Highway Applications

B. American Society for Testing and Materials (ASTM):

1. D 123 - Standard Terminology Relating to Textiles
2. D 276 - Test Method for Identification of Fibers in Textiles
3. D 3786 - Standard Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics
4. D 4354 - Practice for Sampling of Geosynthetics for Testing
5. D 4355 - Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)
6. D 4439 - Terminology for Geotextiles

7. D 4491 - Test Methods for Water Permeability of Geotextiles by Permittivity
8. D 4533 - Test Method for Index Trapezoid Tearing Strength of Geotextiles
9. D 4595 - Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
10. D 4632 - Test Method for Grab Breaking Load and Elongation of Geotextiles
11. D 4751 - Test Method for Determining Apparent Opening Size of a Geotextile
12. D 4759 - Practice for Determining the Specification Conformance of Geosynthetics
13. D 4833 -Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products
14. D 4873 - Guide for Identification, Storage, and Handling of Geotextiles
15. D 5141 - Test Method to Determine Filtering Efficiency and Flow Rate for Silt Fence Applications Using Site Specific Soils

C. Geosynthetic Accreditation Institute (GAI) - Laboratory Accreditation Program (LAP).

D. National Transportation Product Evaluation Program (NTPEP)

1.5 DEFINITIONS

A. Minimum Average Roll Value (MARV): Property value calculated as typical minus two standard deviations. Statistically, it yields a 97.7 percent degree of confidence that any sample taken during quality assurance testing will exceed value reported.

1.6 SUBMITTALS

A. Submit the following :

1. Certification: The contractor shall provide to the Engineer a certificate stating the name of the manufacturer, product name, style number, chemical composition of the filaments or yarns and other pertinent information to fully describe the geotextile. The Certification shall state that the furnished geotextile meets MARV requirements of the specification as evaluated under the Manufacturer's quality control program. The Certification shall be attested to by a person having legal authority to bind the Manufacturer.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Geosynthetic Accreditation Institute (GAI)- Laboratory Accreditation Program (LAP)
2. American Association for Laboratory Accreditation (A2LA)

1.8 DELIVERY, STORAGE AND HANDLING

A. Geotextiles labeling, shipment and storage shall follow ASTM D 4873. Product labels shall clearly show the manufacturer or supplier name, style name, and roll number.

B. Each geotextile roll shall be wrapped with a material that will protect the geotextile from damage due to shipment, water, sunlight, and contaminants.

C. During storage, geotextile rolls shall be elevated off the ground and adequately covered to protect them from the following: site construction damage, precipitation, extended ultraviolet radiation including sunlight, chemicals that are strong acids or strong bases, flames including welding sparks, excess temperatures, and any other environmental conditions that may damage the physical property values of the geotextile.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Mirafi Construction Products

365 South Holland Drive

Pendergrass, GA, USA 30567

1-888-795-0808

1-706-693-2226

1-706-693-2083, fax

www.mirafi.com

B. Or approved equal

2.2 MATERIALS

A. Geotextile:

1. The geotextile shall be manufactured with fibers consisting of long-chain synthetic polymers composed of at least 95 percent by weight of polyolefins or polyesters. They shall form a stable network such that the filaments or yarns retain their dimensional stability relative to each other, including selvages.
2. Woven slit film geotextiles (i.e., geotextiles made from yarns of a flat, tape-like character) shall not be allowed.
3. The geotextile shall meet the requirements of Table 1. All numeric values in Table 1 except AOS represent MARV in the weakest principal direction. Values for AOS represent maximum average roll values.

TABLE 1 - SUBSURFACE DRAINAGE GEOTEXTILE

Property	**Test Method**	**Units**	**Elongation = 50%[1]**
Grab Tensile Strength	ASTM D 4632	N (lbs)	500 (112)
Sewn Seam Strength[2]	ASTM D 4632	N (lbs)	450 (101)
Tear Strength	ASTM D 4533	N (lbs)	180 (40)
Puncture Strength	ASTM D 4833	N (lbs)	180 (40)

Burst Strength	ASTM D 3786	kPa (psi)	950 (138)
Permittivity	ASTM D 4991	sec-1	0.1
Apparent Opening Size	ASTM D 4751	mm (U.S. Sieve)	0.22 max (70)
Ultraviolet Stability[3]	ASTM D 4355	%	50

1. A measured in accordance with ASTM D 4632
2. When sewn seams are required.
3. After 500 hrs
4. Approved geotextiles are as follows: Elongation = 50 %: Mirafi 140N

2.3 QUALITY CONTROL

A. Manufacturing Quality Control: Testing shall be performed at a laboratory accredited by GAI-LAP and A2LA for tests required for the geotextile, at frequency meeting or exceeding ASTM D 4354.

B. Geotextile properties, other than Sewn Seam Strength, Burst Strength, and Ultraviolet Stability shall be tested by NTPEP to verify conformance with this specification.

C. Sewn Seam Strength shall be verified based on testing of either conformance samples obtained using Procedure A of ASTM D 4354, or based on manufacturer's certifications and testing of quality assurance samples obtained using Procedure B of ASTM D 4354. A lot size for conformance or quality assurance sampling shall be considered to be the shipment quantity of the given product or a truckload of the given product, whichever is smaller.

D. Ultraviolet Stability shall be verified by an independent laboratory on the geotextile or a geotextile of similar construction and yarn type.

PART 3 EXECUTION

3.1 PREPARATION

A. Trench excavation shall be done in accordance with details of the project plans. In all instances, excavation shall be done in such a way to prevent large voids from occurring in the sides and bottom of the trench. The graded surface shall be smooth and free of debris.

3.2 INSTALLATION

A. The geotextile shall be placed loosely with no wrinkles or folds, and with no void spaces between the geotextile and the ground surface. Successive sheets of geotextiles shall be overlapped a minimum of 300 mm (12 in), with the upstream sheet overlapping the downstream sheet.

B. In trenches equal to or greater than 300 mm (12 in) in width, after placing the drainage aggregate the geotextile shall be folded over the top of the backfill material in a manner to produce a minimum overlap of 300 mm (12 in). In trenches less than 300 mm (12 in) but greater than 100 mm (4 in) wide, the overlap shall be equal to the width of the trench. Where the trench is less than 100 mm (4 in) the geotextile overlap shall be sewn or otherwise bonded. All seams shall be subject to the approval of the Engineer.

C. Should the geotextile be damaged during installation or drainage aggregate placement, a geotextile patch shall be placed over the damaged area extending beyond the damaged area a distance of 300 mm (12 in), or the specified seam overlap, whichever is greater.

D. Placement of drainage aggregate should proceed immediately following placement of the geotextile. The geotextile should be covered with a minimum of 300 mm (12 in) of loosely placed aggregate prior to compaction. If a perforated collector pipe is to be installed in the trench, a bedding layer of drainage aggregate should be placed below the pipe, with the remainder of the aggregate placed to the minimum required construction depth.

E. The aggregate should be compacted with vibratory equipment to a minimum of 95 percent Standard AASHTO density unless the trench is required for structural support.

END OF SECTION

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SECTION 02640

DRAINAGE SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

A. This Section includes furnishing and installing the drainage system at the center pier as shown on the Contract Plans.

1.2 RELATED SECTIONS

A. State of California
   1. Section 64 Plastic Pipe

B. City of San Jose, Department of Public Works, Standard Specifications
   1. Section 10-5

C. American Society of Testing and Materials
   1. ASTM D3350
   2. ASTM F2306

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Pipe shall be provided only by manufacturers that are certified through the Plastic Pipe Institute (PPI) Third Party Certification program and/or the National Transportation Product Evaluation Program (NTPEP).

2.2 MATERIALS

A. HDPE Pipe & Accessories.
   1. High Density Polyethylene (HDPE) resin shall contain not less than 2 ± 0.5% carbon black ultraviolet stabilizer.
   2. Pipe. The manufacturer of (HDPE) pipe shall be governed by the latest edition of ASTM F2306. Pipe and fittings shall be made from virgin PE compounds which conform to the requirements of cell class 435400C in the latest edition of ASTM D3350.
      a. HDPE pipe shall be 4" nominal diameter schedule 40 pipe.
   3. Fittings.
      a. Fittings shall not reduce or impair the overall integrity or function of the pipeline system.
      b. Fittings shall meet the requirements of AASHTO M294 and ASTM F2306.
      c. Fittings may be either molded or fabricated.
      d. Only fittings supplied or recommended by the manufacturer shall be used.

PART 3 PART 3 – EXECUTION

3.1 INSTALLATION

A. Pipe laying shall conform to Section 1302, "Pipe Installation", of the City Standard Specifications.

B. Joints shall conform to Section 1302, "Pipe Installation", of the City Standard Specifications for concrete pipe.

C. No pipe shall be laid until the Engineer's representative inspects and approves the condition of the bottom of the trench. Pipe laying shall proceed upgrade with the spigot section of bell and spigot pipe pointing in the direction of flow.

D. All above-grade piping shall be securely attached to concrete pile or anchored to ground as required to maintain the grades shown on the drawings.

E. Deflection. Maximum deflection (reduction of the barrel base inside diameter) is 5%. Time of measurement shall be not less than 30 days nor more than 60 days following installation.

F. Grade Adjustments to Frames, Grates and Covers:

1. Frames, grates, and covers of all surface structures (manholes, clean outs, etc.) shall be adjusted to proposed finish grade. Grade rings shall be supplied and installed as required.

3.2 HANDLING

A. All pipe, pipe couplings, and accessories shall be unloaded, stockpiled, hauled, distributed, and otherwise handled in a manner which will prevent damage thereto.

PART 4 MEASUREMENT AND PAYMENT

4.1 No separate measurement will be made for the work specified in this Section.

The work specified in this Section shall include furnishing all labor, materials, tools, equipment, and incidentals and for performing all work described in this Section, complete in place, as shown on the plans, as specified in the Special Provisions and these technical specifications, and as directed by the Engineer. Full compensation for the work specified in this Section shall be considered as included in the contract lump sum prices paid for the various items to which the work applies in accordance with the Schedule of Bid Prices and no additional compensation will be allowed.

END OF SECTION 02640

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